DES AERMOD HELP GUIDE

▪ **In <u>Met Data Options</u> screen under <u>AERMOD Met Files</u>, add SFC met file names from lower left box to upper right box. Refer to DES** *Guidance and Procedure for Performing Air Quality Impact Modeling in New Hampshire* **to determine which meteorological data set to use. AERMET does not need to be run since data files have already been processed.**

▪ **Use base elevation of surface met site as Profile Base Elevation.**
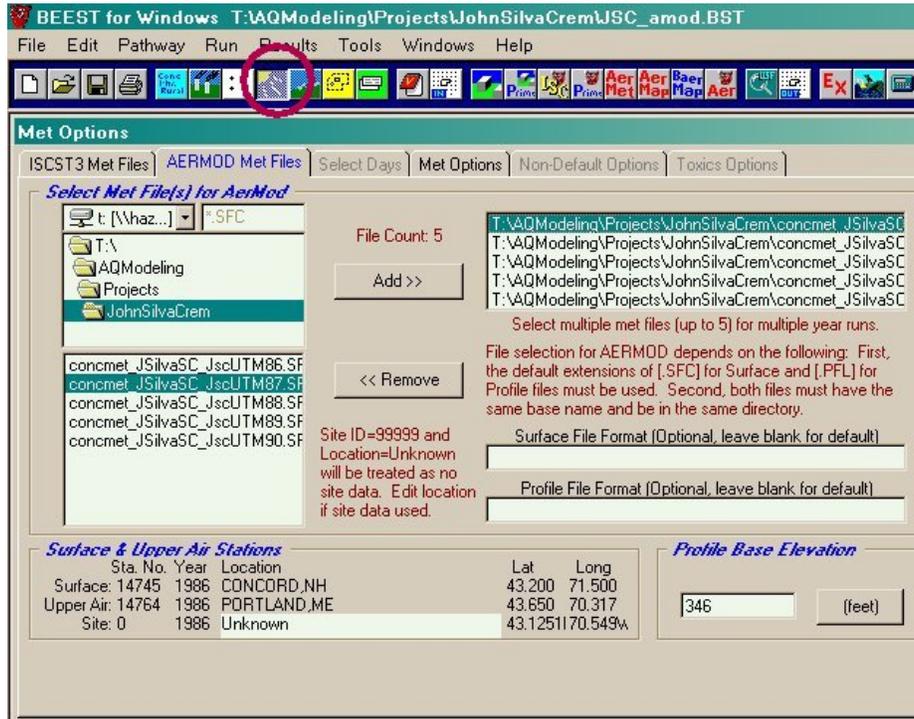
AERMOD

▪ **Need to have refined grid near buildings (DES recommends 20 meters).**

▪ **Remember to run BPIP-PRIME for AERMOD.**
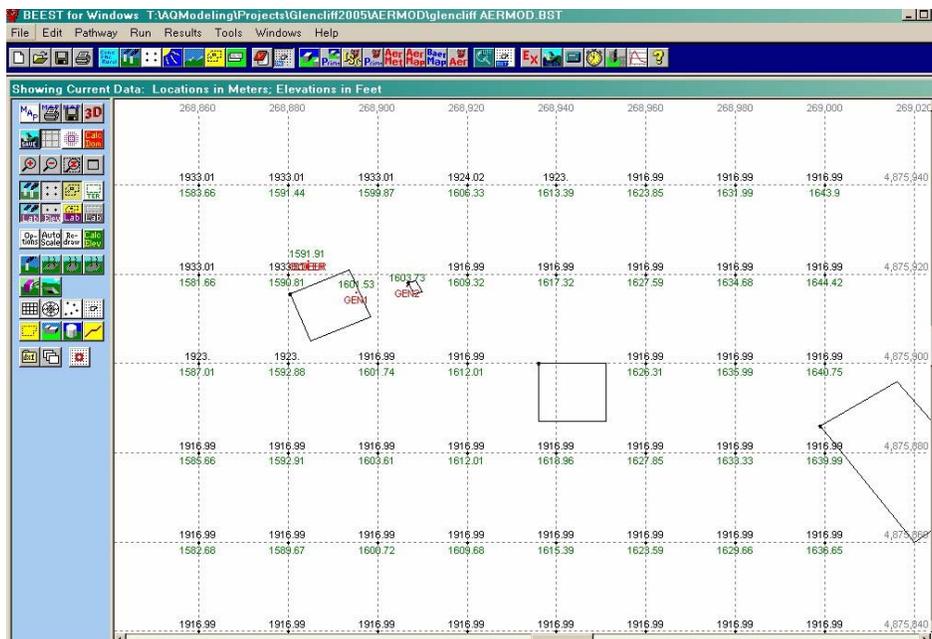
AERMAP

- **In <u>Terrain Options</u> screen under <u>AERMAP Files</u>, select DEM file(s) and add them to box on right.**
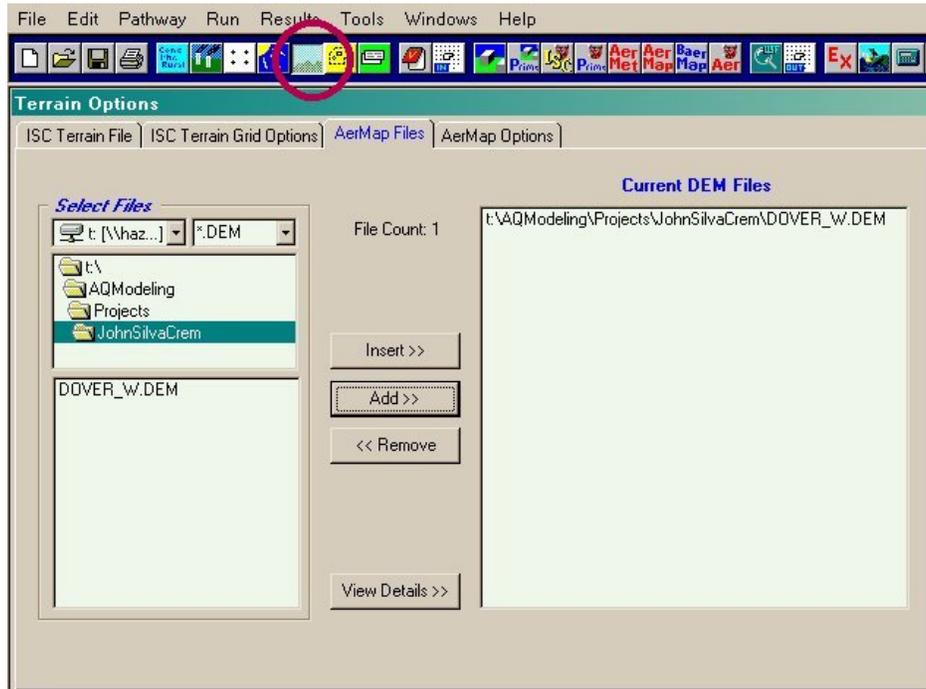
- **Under <u>Terrain Options</u> go to <u>AERMAP Options</u>.**
- **Anchor Locations are used to anchor a local coordinate system (e.g., User Location of 0, 0) to a UTM coordinate system. If you are using UTMs, make the Anchor Location equal to the primary source location.**
- **Leave Domain blank for now (domain must extend beyond all receptors and sources, and should ensure that all terrain elevations that exceed a 10% slope are included (see next page for domain calculation procedure).**
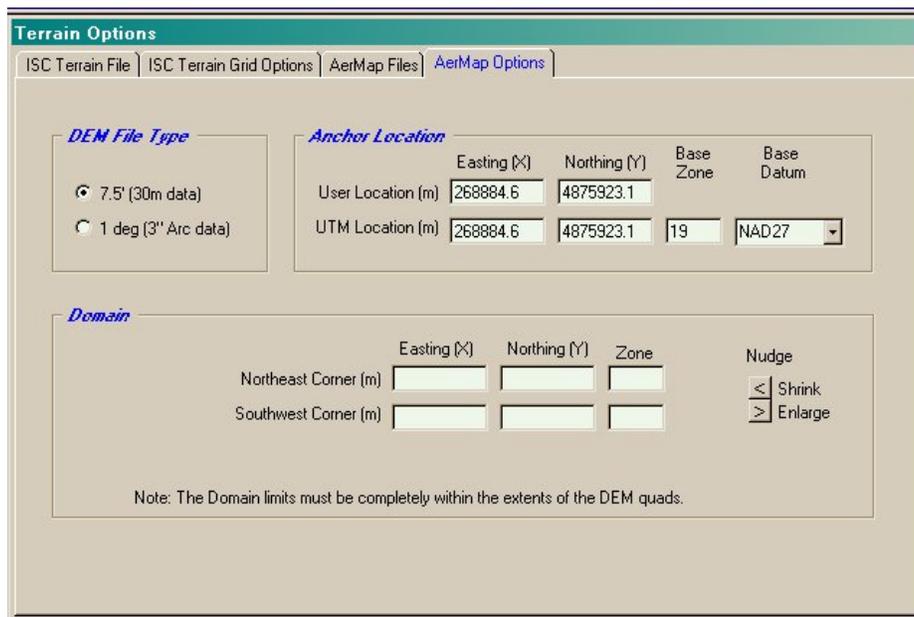
- **Use "Calc Dom" button on <u>graphic input screen</u> to automatically calculate extent of domain.**
- **Program automatically calculates domain and necessary DEM files (based on 10% slope) and inserts them in <u>AERMAP Files</u> tab in <u>Terrain Options</u>.**
- **May need to add DEMs in <u>Terrain Options</u> screen (under <u>AERMAP Files</u>) or shrink domain size to keep domain within extent of DEMs.**
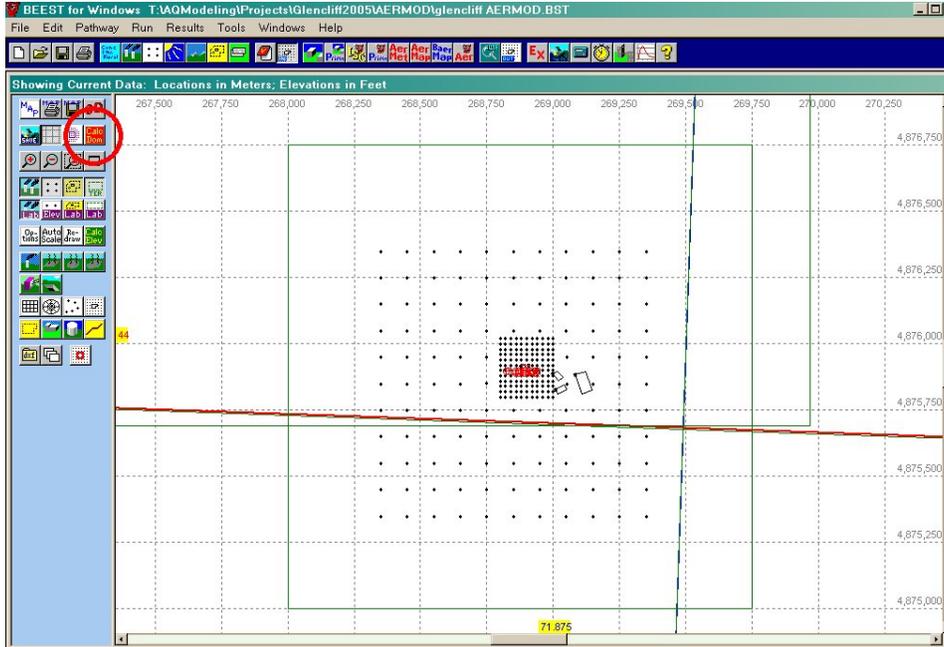
- **In <u>AERMAP</u> screen create a .MAP file name.**
- **Use Extract option to calculate elevations and hill heights.**
- **Check all Objects to automatically calculate elevations. (NOTE: user should review elevations of sources and buildings for consistency).**